



THE NEW INDIAN EXPRESS

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SYUKURO MANABE



KLAUSHASSELMANN



GIORGIO PARISI

JAB-O-METER	October 4	65,63,089 doses
TAKE YOUR SHOT	October 5	54,08,420 doses
TOTAL DOSES	OCT 4	OCT 5
Fresh cases	20,799	18,346
Recoveries	26,718	29,639
Deaths	180	263
KARNATAKA	OCT 4	OCT 5
Fresh cases	397	523
Recoveries	693	575
Deaths	13	14



THREE SCIENTISTS SHARE 2021 NOBEL PHYSICS PRIZE

Their work enhanced our understanding of complex physical systems including physical modelling of the Earth's climate

RELIABLY PREDICTING GLOBAL WARMING

Japanese-American meteorologist Syukuro Manabe (90) and German oceanographer Klaus Hasselmann (89) were awarded for "quantifying variability and reliably predicting global warming". Italian theoretical physicist Giorgio Parisi (73) was awarded the other half "for the discovery of the interplay of disorder and fluctuations in physical systems"

FINDING ORDER IN DISORDER, RANDOMNESS

The work by Manabe and Hasselmann is about large global forces that shape our daily lives, while Parisi's work centres around subatomic particles and is somewhat esoteric and academic. Parisi's work is also focused on identifying hidden patterns in disordered complex materials called spin glasses | P18

Today

2021 NOBEL PRIZE FOR CHEMISTRY
WILL BE ANNOUNCED ON WEDNESDAY

CHENNAI • MADURAI • VILAYNAD • BENGALURU • KOCHI • HYDERABAD • VISAKHAPATNAM • COIMBATORE • KODAKKOT • THIRUVANANTHAPURAM • DELHIVERY • BHUBANESWAR • SHIVMOGA • MANGALURU • THIRUPATI • THIRUCHY • THIRUNEELVELI • SAMBALPUR • HUBBALLI • CHHANNAPUR • KOTTAYAM • KANNUR • VILLUPURAM • KOLLAM • WARANGAL • TADIPALLIGUDA • NAGAPATTINAM • THIRISSUR • KALABURGI

Indian lab may have helped validate research that fetched the medicine Nobel

SUMI SUKANYA DUTTA @NewDelhi

WHILE Ardem Patapoutian, along with David Julius, on Monday bagged the Nobel Prize in medicine for their seminal work in the discovery of receptors that allow humans to feel temperature and touch, a government lab in India, too, may have helped establish the sig-

nificance of their discovery. The Indian Institute of Chemical Biology (IICB) under the CSIR had shown in 2018 that the cells of the immune system may also be critically dependent on these channels to sense physical cues they encounter inside the body.



Dipyaman Ganguly

Patapoutian's discovery of the Piezo channels — a basic fact of biology that was not known before 2010 — in the nervous system was followed up by a number of labs to find the role of these channels in other different bodily functions and how exactly they work.

For instance, David Beeche's lab in University of Leeds discovered in 2014 that the pressure sensing function of the channels also makes them critical in the cardiovascular system, such as to sense changes in blood pressure. Besides, Wolfgang Liedtke's group in Duke University showed in 2014 that these channels play a

major role in sensing pressure in the cartilage of our joints. Back home, a group of IICB scientists led by immunologist Dipyaman Ganguly first showed in 2018 that the cells of the immune system may be critically dependent on these channels for sensing physical cues inside the body. Their paper titled "Cutting Edge: Piezo1

Mechanosensors Optimize Human T Cell Activation", published in *The Journal of Immunology*, provided the first evidence for the involvement of Piezo mechanosensors in immune regulation. Another group in China uncovered the structural basis of the channel's working in 2018. All these works confirmed the

diverse physiological role and importance of Piezo channels. "This is their moment and they deserve all the accolades," said Ganguly, adding that his lab may be the only one in this field in India as of now. "We are happy to have contributed in a way that may have helped establish the significance of Patapoutian's work."

CITIZEN SAFETY

Govt to probe water contamination deaths

EXPRESS NEWS SERVICE @Bengaluru

THE State Government on Tuesday ordered a probe into deaths due to consumption of contaminated water at Makarabbi village of Vijayanagara district over the last two weeks.

A team of officials, headed by senior IAS officer Munish Moudgil, will inquire into all aspects, including reasons for the contamination of drinking water. They will investigate how sewage water got mixed with drinking water, who is responsible for it, who are the local officials and engineers and who are the senior officials responsible for it," said Chief Minister Basavaraj Bommai here on Tuesday. The team has to submit the report within five days, said a government order issued later.

Bommai said the State Government has taken the issue seriously, and announced a compensation of ₹3 lakh to the kin of each deceased. At least three people

have died after consuming contaminated water in the village, while over 150 people were admitted to hospitals.

Also, the regional commissioner of Kalaburgi has been directed to give a report on the deaths of three people in Afzalpur taluk of the district, the chief minister said. While some claim the deaths are due to monkey fever, others attribute it to contaminated water. Action will be taken after getting the report from the regional commissioner, the chief minister added.

In September, two women of Kamalapur taluk of Kalaburgi district died due to gastroenteritis, while 50 people were admitted to hospitals. There, too, consuming contaminated water was said to be the reason for the deaths.

The government order issued on Tuesday evening stated that there were reports of six deaths in Makarabbi village and there is a need to find the exact reason. Action will be taken against those responsible, it added.

VIDEO ADDS HEAT, SHAH CALLS JUNIOR MINISTER

Pressure grows to arrest son of Ajay Mishra; Rahul in Lakhimpur today

NAMITA BAJPAI @Lucknow

AMID mounting outrage over the failure to arrest the son of Union Minister of State for Home Affairs Ajay Mishra over the Lakhimpur Kheri violence, a video clip purportedly showing a black SUV mowing down protesting farmers in that village on Sunday, which led to the death of eight persons, including four farmers, added fuel to the fire.

The 29-second clip led to Union home minister Amit Shah summoning Mishra to Delhi, highly placed sources said. Mishra is also expected to brief senior leaders of the Sangh Parivar, highly placed sources said.

For his part, Mishra claimed he would resign if there was any evidence establishing his son Ashish's presence at the spot of violence. He said the driver lost control of the SUV and ran over the farmers as the protesters had stoned the vehicle.

Ashish has been named in an FIR following a police complaint by the farmers. The FIR says: "Ashish Mishra alias Monu, accompanied by his 15-20 aides with



CAN BE FREED ON PERSONAL BOND

As per sources, the Congress leaders could now be released on personal bonds. Priyanka may not necessarily be presented before a court for release. Under certain CrP sections, hearing can be done by the magistrate at any place if need be

loaded weapons and riding 3-4 four wheelers, came rushing to Tikunia in Kheri where the farmers had gathered. Ashish was sitting on the left seat in his Thar Mahindra, which ran over the

farmers trampling them while he (Ashish) fired with his weapon. Farmer Gurdinder Singh (22) received a bullet shot and died on the spot." The mowing down mentioned in the FIR matches the sequence of events seen in the video clip.

Tweeting the video, Congress general secretary Priyanka Gandhi asked Prime Minister Narendra Modi, who was in Lucknow on Tuesday, why Ashish was out of the police net while she was in custody illegally without any arrest warrant.

Later, Priyanka and 10 other Congress leaders were officially arrested by the police in Sitapur, where she was detained on Monday morning. The arrests were to "prevent the commission of cognizable offences", police said. Priyanka spoke to the bereaved farmer families on phone.

Congress leader Rahul Gandhi is expected to lead a five-member delegation to Lakhimpur Kheri on Wednesday.

Chhattisgarh Chief Minister Bhupesh Baghel reached Lucknow airport to join Priyanka, but was not allowed to leave. P9

Pandora Paapers?



CM now has dashboard to track projects realtime

EXPRESS NEWS SERVICE @Bengaluru

CHIEF Minister Basavaraj Bommai on Tuesday launched the digital CM Dashboard, which allows him to track on-going projects and schemes of different departments in a single place. Built on the lines of the system that is already functioning at the Prime Minister's Office, this facility allows the chief minister to review the progress of projects real-time.

States like Gujarat and Madhya Pradesh already have such systems for their chief ministers. After launching the Dashboard, Bommai held a review meeting of revenue, BBMP, energy, education, housing and Rural Development and Panchayat Raj departments. P4

Changed NEET helps pvt colleges: SC

EXPRESS NEWS SERVICE @NewDelhi

THE Supreme Court on Tuesday was scathing in its criticism of the Centre and the National Board of Examinations for changing the National Eligibility cum Entrance Test - Super Speciality (NEET-SS) 2021 pattern, inferring it was done to fill up seats in private colleges.

A bench comprising justices D Y Chandrachud and B V Nagathana said, "You announce the changes in August for the exam in November. When the students come to the court, you change the exams to January. This does not augur well."

"Just because you have authority can it be exercised (like this)? Would the heavens have fallen if it was done next year? What would happen if a year's time is given to students to prepare? Changing the pattern is in the domain of experts but do it in a way experts do, not in this fashion. Otherwise, it sends a signal that medical profession and medical regulation has also become a business. We hope better sense prevails," the bench remarked.

Justice Chandrachud, who suggested that the changes can be deferred by a year, gave the Centre a day to find a solution.

"We will still give you time to put your house in order. We will hear it tomorrow (Wednesday). But if you are showing obduracy, the arms of the law are strong," he warned.

The bench noted that as per the revised pattern, 100% questions for the super speciality entrance test will come from the feeder category of general medicine. Under the earlier pattern, 60% of the questions were from the super speciality course which the student opted and only 40% questions were from the feeder categories.

"The logic seems to be, general medicine is the largest pool, and tap them to fill the seats," Justice Chandrachud said.

Regn renewal of old cars to cost a bomb from April

EXPRESS NEWS SERVICE @NewDelhi

FROM April 2022, vehicle owners will have to pay ₹5,000 for renewal of registration of the cars older than 15 years against the current price of ₹600. When it comes to two-wheelers, registration renewal of old bikes would cost ₹1,000 from April next year compared with ₹300 now. For three-wheelers and quadricycles, it has been increased from ₹600 to ₹2,500.

As for renewal of registration for imported bikes and cars, the new prices effective from next financial year would be ₹10,000 (₹2,500 now) and ₹40,000 (₹5,000 now). A notification issued by the Ministry of Road Transport and Highways on Tuesday stated that renewal of fitness certificate for a bus or truck older than 15 years will attract a fee of ₹12,500 against ₹1,500 at present; while for medium goods or passenger motor vehicle, it would cost ₹10,000.

In case of delay in renewal, an additional fee of ₹300 per month in the case of private vehicles and ₹500 for commercial vehicles shall be levied, the notification said.

EXPRESS READ

Shringla meets Lankan Prez Rajapaksa

Colombo: Foreign Secretary Harsh Vardhan Shringla on Tuesday called on Sri Lankan President Gotabaya Rajapaksa and discussed ways to advance the comprehensive bilateral partnership at all levels.

Govt ups aid under Sandhya Suraksha

Bengaluru: The State Government has decided to increase financial assistance to senior citizens under its 'Sandhya Suraksha' scheme by ₹200, which is aimed at benefitting 34 lakh beneficiaries. P4

A TOUGH LIFE

Working for powerful, but Group D staff lack amenities

WE are close to powerhouses and work closely with powerful people, but we are so powerless. Resident, Group D employees quarters



The moss-infested walls of a house reflect the sorry state of the quarters which Group D staffers call home | NAGARAJ GADGIL

ASHWINI M SRIPAD @Bengaluru

THEY work for powerful people and stay just stone's throw away from the chief minister's office Krishna and residence Anugraha. "But we seem so powerless," say Group D employees staying in these quarters, which have leaky roofs, moldy and cracked walls, broken doors and slippery roads.

While ministers and opposition leaders spend crores of rupees of taxpayers' money on upgrading their government-provided houses, buying new furniture and making their ac-

commodation Vaastu compliant, here are these lower-run staffers, working as drivers, cooks and watchmen at the residences of their political bosses, who live with barely minimum facilities.

Around 40 houses of these support and housekeeping staff sit on a prime land of 2.5 acres off Kumara Krupa Road. But the quarters that were built over 60 years ago have not seen any maintenance over the decades. The drainage leaks most of the time and the roads leading to the houses are slippery and dangerous. P4

Fresh to home

WEDNESDAY MARKET

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